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AUTHOR: Kaz'min, Yu.A.

TITLE: On the Completeness of a System of Analytic Functions. ¹⁶₁

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya I, matematika, mekhanika, 1960, No.5, pp.3-13

TEXT: Let $A+\alpha$ denote the region arising from the region A by translation with the vector α . Let $A+\alpha \subset D$. Let a certain set of points $\alpha \in (A+\alpha \subset D)$ form a continuum $K(A)$ not degenerating in one point and let $\alpha = 0 \in K(A)$. Theorem 1: Let $f(z)$ be regular in D . The systems of functions $\{f(z+\alpha_n)\}$ and $\{f^{(n)}(z)\}$, where $\{\alpha_n\}$ is an infinite bounded set of different points $\subset K(A)$, are simultaneously complete or not in $A \subset D$.

Theorem 2: If $f(z)$ is regular in D and

(1) $\{f^{(n)}(z)\}$, $n=0,1,2,\dots$

is complete in $A \subset D$, then (1) is complete in an arbitrary region $A+\alpha \subset D$.

Theorem 3: The systems $\{f^{(n)}(z)\}$ and $\{f^{(n)}(z+\lambda_n)\}$, $n=0,1,2,\dots$ are simultaneously complete or not in $A \subset D$ if $\{\lambda_n\} \subset K(A)$, $\lambda_n \rightarrow \lambda$, and

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$\sum_{n=0}^{\infty} |\lambda_n - \lambda_{n+1}| < \infty$; or $\sum_{n=0}^{\infty} |\lambda_n - \lambda_{n+1}| = \infty$, but there exists a circle $|\alpha - \lambda| < r$, $r > 0$, lying in $K(A)$, so that

$$\lim_{n \rightarrow \infty} n |\lambda_n - \lambda_{n+1}| \leq \frac{r}{e}$$

Let $f(z)$ be regular in D and representable as the limit value of a sequence, converging uniformly in D , of Dirichlet polynomials

$$(8) \quad P_n(z) = \sum_{j=1}^{p_n} a_{nj} e^{\lambda_j z}$$

with given λ_j , $j=1,2,\dots$. Let in D to every sequence $P_n(z)$ converging uniformly to $f(z)$, correspond uniquely the series $\sum a_j e^{\lambda_j z}$, where

$a_j = \lim_{n \rightarrow \infty} a_{nj}$, i.e. in D there exists a sequence of linear functionals L_n

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so that $L_n[e^{\lambda_j z}] = \varepsilon_{nj}$. Let

$$L_n[e^{\lambda_j z}] = \int_L e^{\lambda_j z} d\varphi_n(z),$$

where L is a rectifiable curve in D and $\{\varphi_n(z)\} \subset M(L)$; $M(L)$ is the set of functions defined on L for which a certain additional condition is satisfied (to $M(L)$ there belong e.g. functions being of bounded variation on L).

Theorem 4. For $a_j \neq 0$, the closed linear closure of the system $\{f^{(n)}(z)\}$ contains the closed linear closure of the sequence $\{e^{\lambda_j z}\}$ in every region A , where $K(A) \supset L$.

Theorem 5. Let $f(z)$ in S , $-\infty < a < \lim z < b < +\infty$ be regular and almost periodic. Let $\lambda_1, \lambda_2, \dots, \lambda_k, \dots$ be the spectrum of $f(z)$. Then in an

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KAZ'MIN, Yu.A.

Completeness of one system of analytic functions. Part 2. Vest.
Most. un. Ser. 1: Mat.; mekh.15 no.6:11-19 N-D '60. (MIRA 14:3)

1. Kafedra teorii funktsiy i funktsional'nogo analiza Moskovskogo
universiteta.

(Functions, Analytic)

KAZ'MIN, Yu.A.

Completeness of a sequence of a function in the space \bar{A}_1 .
Vest. Mosk. un. Ser.1 : mat., mekh.16 no.6:46-48 N-D '61.
(MIRA 14:11)

1. Kafedra matematicheskogo analiza Moskovskogo universiteta.
(Functions, Analytic)
(Sequences(Mathematics))

KAZ'MIN, Yu.A.

On the feasibility of approximation in certain regions by linear
aggregates from derivatives of an analytic function. Sib.mat.
zhur. 3 no.6:952-955 N-D '62. (MIRA 15:11)
(Aggregates) (Functions, Analytic)

KAZ'MIN, Yu.A.

Goncharov polynomials and the problems concerning the representation of an analytic function by a series of primitives of a certain function. Vest. Mosk. un. Ser. 1:Mat., mekh. no.6:9-19 M-D '62. (MIRA 16:2)

1. Kafedra teorii funktsiy i funktsional'nogo analiza Moskovskogo universiteta.

(Series) (Functions, Analytic)

(Polynomials)

KAZ'MIN, Yu. A.

On the zeros of successive derivatives of an analytic function. Vest. Mosk. un. Ser. 1: Mat., mekh. 18 no.1:26-34
Ja-F '63. (MIRA 16:1)

1. Kafedra funktsiy i funktsional'nogo analiza
Moskovskogo universiteta.

(Functions, Analytic)

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APPROSSION NR: AP5002068

S/0055/63/000/005/0035/0046

ATTOR: Kaz'min, Yu. A.

TITLE: Successive remainders of a Taylor series 1/6

SOURCE: Moscow. Universitet. Vestnik. Seriya 1. Matematika, mekhanika, no. 5, 1963, 35-46

TOPIC TAGS: complex variable

ABSTRACT: Let $f(z)$ be a function, analytic in some (not necessarily simply-connected!) region D , containing the origin. In the first part of this article the author solves the completeness problem in an arbitrary region $G \subset D$, $0 \in G$, of the following system of functions:

$$\left\{ f_n(z) = \frac{1}{2\pi i} \int_C \frac{f(t) dt}{t^n(t-z)} \right\}, \quad n = 0, 1, 2, \dots, \quad (1)$$

(related to the set $f^{(n)}(z)$), where, as the contour of integration C any closed Jordan curve containing the origin inside itself and lying together with the region bounded by it in D can be used. Using an auxiliary function, the author then

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1. 1956-65

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studies the problem of completeness in G of certain subsequences of functions of the family (1) and discovers new facts on completeness of subsequences of derivatives of entire functions of exponential type. Then he constructs the generating function for the sequence $f_n(z)$, which makes it possible to apply the obtained results to several other problems, such as completeness of various systems of functions, in particular of divided differences

$$\left\{ \frac{f(z) - f(a_n)}{z - a_n} \right\}. \quad (2)$$

and others. Finally, he notes that the problem of finding entire functions of a class of differential equations of infinite order is equivalent to the boundary value problem of Privalov, from which he obtains and refines previously derived results concerning differential equations of this class. Theorem 1. In order for the function $f(z)$, regular in the region D , $0 \in D$, to generate the sequence of functions (1), complete in $A^-(G)$, $G \supset D$, $0 \in G$, it is necessary and sufficient that $f(z)$ be non-rational. Theorem 2. Let the function $f(z)$ be analytic in some region D , $0 \in D$, and meromorphic in some disc $|z| < r$, $0 < r < \infty$. If: 1) on the circumference $|z| = r$ the function $f(z)$ has at least one singular point which is not a pole, and also 2) $f(z)$ is regular in some closed sector S of the circle $|z| \leq r$ with central angle of opening $2\pi\sigma$, $0 < \sigma < 1$ (i.e., if $z = \rho e^{i\theta} \in S$, then

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$0 < \sigma < \pi\sigma$, $0 < \rho < r$, then the sequence

$$\{f_{\lambda_n}(z)\}, \quad n = 0, 1, 2, \dots, \quad (5)$$

for which

$$\lim_{n \rightarrow \infty} \frac{n}{\lambda_n} > 1 - \sigma. \quad (4)$$

is complete in an arbitrary simply-connected region $G \subset D$, $0 \in G$. Theorem 3. Suppose the function $f(z)$ is regular in a neighborhood of zero and in some angle g of opening $2\pi\sigma$ with vertex at the origin ($0 < \sigma < \pi\sigma$). It is known that $f(z)$ is non-rational and

$$\max_{|z| \leq \rho, |z| < \pi\sigma} |f(z)| \leq Cr^N. \quad (5)$$

If $\lim_{n \rightarrow \infty} \frac{n}{\lambda_n} = d$, $d > 1 - \sigma$, then the sequence

$$\{f_{\lambda_n}(z)\}, \quad n = 0, 1, 2, \dots, \quad (6)$$

is complete in any simply-connected region $G \subset D$. Theorem 4. Let $F(z) = \sum_{k=0}^{\infty} \frac{c_k}{k!} z^k$

be an entire function of exponential type R , $0 < R < \infty$, and let

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$\varphi(z) = \sum_{k=0}^{\infty} \frac{a_k}{z^{k+1}}$ be a function which is Borel-associated with $F(z)$. If the function

$f\left(\frac{1}{z}\right)$ (regular for $|z| < \frac{1}{R}$) is meromorphic in the disc $|z| < r$, $\frac{1}{R} \leq r < \infty$, and:
 1) on the circumference $|z| = r$ has at least one singular point which is not a pole, and also 2) is holomorphic in some closed sector S of the circle $|z| \leq r$
 with central angle of opening $2\pi\sigma$, $0 < \sigma < 1$ (that is, if $z = re^{i\theta} \in S$, then
 $\theta - \theta_0 \leq \sigma\theta$, and $0 \leq \rho \leq r$), then the sequence of derivatives of $F(z)$

$$\{F^{(A_n)}(z)\}, \quad n = 0, 1, 2, \dots, \quad (7)$$

where $\lim_{n \rightarrow \infty} \frac{n}{A_n} > 1 - \sigma$, is complete in an arbitrary $A^-(G)$. Theorem 5. Let

$f(z) \in A^-(G)$, $0 \in G$, and let $\{a_n\}$ be a sequence of distinct points $a_n \in G$ which has at least one limit point $\alpha \in G$. In order for the sequence of divided differences

$$\left\{ \frac{f(z) - f(a_n)}{z - a_n} \right\}, \quad n = 0, 1, 2, \dots, \quad (8)$$

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to be complete in $A^-(G)$, it is necessary and sufficient that $f(z)$ be non-rational. Theorem 6. Let $f(z) \in A^-(G)$, $0 \in G$, and let the sequence of complex numbers $\{a_n\}$ have one of the following properties:

- 1) $\lim_{n \rightarrow \infty} n|a_n - a| < 0.7259r$, where $a \in G$, and $r, r > 0$, be the radius of convergence of the expansion $f(z) = \sum_{k=0}^{\infty} c_k (z-a)^k$;
- 2) $\lim_{n \rightarrow \infty} a_n = a \in G$ and $\sum_{n=0}^{\infty} |a_n - a_{n+1}| < \infty$;
- 3) $\lim_{n \rightarrow \infty} a_n = a \in G$ and $\lim_{n \rightarrow \infty} n(a_n - a) = b \neq \infty$.

Then the system of functions

$$\left\{ \frac{\partial^n}{\partial z^n} \left[\frac{f(z) - f(a)}{z - a} \right] \right\}_{n=0,1,2,\dots} \quad (9)$$

is complete in $A^-(G)$ if and only if $f(z)$ is non-rational. Theorem 7. Let $f(z) \in A^-(G)$, $0 \in G$, and let the sequence of complex numbers $\{a_n\}$ be such that

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$\lim_{n \rightarrow \infty} |a_n| < 0,536R, R > 0$, where R is the radius of convergence of the expansion

$f(z) = \sum_{k=0}^{\infty} a_k z^k$. In order for the sequence of functions

$$\left\{ \frac{f_n(z) - f_n(a_n)}{z - a_n} \right\}, \quad n = 0, 1, 2, \dots, \quad (10)$$

to be complete in $A^-(G)$, it is necessary and sufficient that $f(z)$ be non-rational.

Theorem 8. If $f(z) \in A^-(G)$, $0 \in G$, and R is the radius of convergence of the series $f(z) = \sum_{k=0}^{\infty} a_k z^k$, then from the condition

$$\sum_{n=1}^{\infty} c_n f_n(z) = 0 \quad \text{и} \quad \lim_{n \rightarrow \infty} \sqrt[n]{c_n} < R \quad (11)$$

it follows that $a_n = 0$ if and only if $f(z)$ is non-rational. Orig. art. has: 26 formulas.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University);
 kafedra teorii funktsiy i funktsional'nogo analiza (Department of Function Theory
 and Functional Analysis)

Card 6/7

KAZ'MIN, Yu.A.

A criterion of completeness. Sib. mat. zhur. 5 no.3:549-556
My-Je '64. (MIRA 17:6)

KAZ'MIN, Yu.A.

On a problem of Gel'fond-Ibragimov. Part 1, Vest. Mosk. un. Ser.1: Mat.,
mekh. 20 no.3:28-36 My-Je '65. (MIRA 18:9)

1. Kafedra matematicheskogo analiza Moskovskogo gosudarstvennogo
universiteta imeni M.V.Lomonosova.

KAZ'MIN, Yu.A.

A Gol'fond - Ibragimov problem. Part 2. Vest.Mosk.un.Ser.1:
Mat., mekh. 20 no.6:37-44 N-D '65.

(MIRA 18:12)

1. Kafedra matematicheskogo analiza Moskovskogo universiteta.
Submitted April 1, 1964.

KAZ'MIN, Yu.A.

The problem of two points in the theory of analytic functions.
Sib. mat. zhur. 6 no.4:938-943 J1-Ag '65. (MIRA 18:10)

I. 24764-66 EMT(d)/T IJP(c)

ACC NR: AP6015530

SOURCE CODE: UR/0199/65/006/004/0938/0943

AUTHOR: Kaz'min, Yu. A.

ORG: none

TITLE: Two-point problem in the theory of analytic functions

SOURCE: Sibirskiy matematicheskiy zhurnal, v. 6, no. 4, 1965, 938-943

TOPIC TAGS: function, mathematics

ABSTRACT: The two-point problem stated in the title was formulated by A. O. GEL'FOND and I. I. IBRAGIMOV (Izv. Ak. nauk SSSR, seriya matem. Bulletin of the Academy of Sciences USSR, Mathematics Series, 11, 1947, 547-560. It reads: Let $A(\{z\} < R)$ be a space of functions which are analytic in the $|z| < R$ circle containing the point $\alpha \neq 0$; one asks for the description of the class of uniqueness U , determined by the conditions that $F(z) \in U \subset A(\{z\} < R)$ if satisfying the conditions

$$F^{(n)}(\alpha) = 0,$$

$$F^{(n)}(0) = 0,$$

leads to $F(z) \equiv 0$. (Here $\{\lambda_n\}$ and $\{\mu_n\}$ are given sequences of natural series of numbers, with $\{\lambda_n\} \cup \{\mu_n\} = \{n\}$, and $\{\lambda_n\} \cap \{\mu_n\} = \emptyset$.

The paper studies the following problems: 1) What class of uniqueness $U \subset A(\{z\} < R)$

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$\langle R \rangle$ determined by the condition that $F(z) \in U$ if $D^s[F; f]|_{z=0} = 0, s = 0, 1, \dots; p > 1$

$0' < |a| < R;$

$D^m[F; f]|_{z=0} = 0, m \neq ps,$

has as a consequence $F(z) \equiv 0$? $D^n [F; f]$ denotes the generalized (in the sense of GEL'FOND-LEONT'YEV) n -th order derivative of the function $F(z)$ generated by the fixed function $f(z)$ (see Matem. sb. Mathematical Symposium, 29, No 3, 1951, 477-500). 2) Which class of functions $M \subset A(|z| < R)$ satisfies conditions (1)? 3) How to re-establish $F(z)$, knowing the values of the generalized derivatives (1) of the function $F(z) \in U$ at the point $a \neq 0$ and at the coordinate origin. Orig. art. has: 10 formulas. [JPRS]

SUB CODE: 12 / SUBM DATE: 20May64 / ORIG REF: 003

Card 2/2 BK

ACC NR: AF6025492

SOURCE CODE: UR/0038/66/030/002/0307/0324

AUTHOR: Kaz'min, Yu. A.

ORG: none

TITLE: Problem of reconstructing an analytic function from its elements

SOURCE: AN SSSR. Izvestiya. Seriya matematicheskaya, v. 30, no. 2, 1966, 307-324

TOPIC TAGS: analytic function, differential calculus

ABSTRACT: The article gives a complete solution of the problem of reconstructing analytic function $F(z)$ from the given values of its derivatives (classical or generalized in one sense or another)

$$F^{(s)}(a_n) = A_{s,n} \quad s = 0, 1, 2, \dots; \quad a \neq 0, \quad a \neq 0;$$

$$F^{(s)}(0) = A_{s,n} \quad s \neq p_n.$$

Orig. art. has: 36 formulas. [JPRS: 36,775]

SUB CODE: 12 / SUBM DATE: 13Apr65 / ORIG REF: 010 / OTH REF: 003

Cord 1/1 *pla*

UDC: 517.5

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SOV/ 20-120-1-45/63

AUTHORS: Kazmin, Yu.B., Kozlov, V.V., Solov'yeva, M. N.

TITLE: On the Middle Carboniferous Deposits of the Zaslayskiy Khrebet (Range)
(O srednekamennougol'nykh otlozheniyakh v Zaslayskom khrebe)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 1,
pp. 166 - 167 (USSR)

ABSTRACT: Until the latest time here the geological structure, especially the stratigraphy of the upper Paleozoic sediments, was only weakly investigated. They are far spread at the south slope and in the axis part of the chain. A historical survey of the investigation of this region (References 1,2) is given. Here until now no reliable data on faunally proved Middle Carboniferous sediments existed. During the compilation of the geological map of the mentioned chain (1955 - 1957) many new data were obtained, which make possible the exact definition of the stratigraphy of the deposits which are discussed. Here especially marine, faunally characterized Middle Carboniferous sediments were discovered. They were found in the catchment area of the Korzhenevskiy-glacier at the basis of the right boundary of the

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valley. They pass over to the left boundary only in the top-
most parts of the glacier. In the west their exposures are
covered by uninterrupted corn snow fields of the massif of the
Lenin Peak. In the East they are cut off by a steep overfault
which brings the Lower Permian and the Paleogene sediments into
contact with each other. At the basis of the exposed part of
the Middle Carboniferous cross section lies a pack of black
massive limestones. A list of the numerous foraminifers which
were found beneath lily crinoid members, brachiopode fragments,
and bryozoans, is given. Because of this fauna these sediments
certainly can be ascribed to the Kashirskiy horizon of
Moskovskiy stage (Middle Coal Age). The visible size of the pack
is 50-60m. Higher up a pack of mutually dark platy shale limes
and loamycarbonate shales follows with rare and little thick
(5-7m) interstrata of andesite-porphyrity. Its thickness is 100m.
The finding of Choristes priscus speaks for a Middle Carboni-
ferous age (after V.S. Gubareva). Upon the mentioned Middle Car-
boniferous sediments lies, without visible discordance, a mass
of marly shales, conglomerates, limes, and effusives of an

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On the Middle Carboniferous Deposits of the
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average composition. According to the fauna this mass corresponds to the lower part of the Schwagerina- horizon. From the character of the cross section of the Middle Carboniferous in the Zaalayskiy chain and from the number of species of the foraminifers the supposition on a uniform sedimentation of the region of the Alayskiy and Zaalayskiy chain and apparently of the Darvaz can be made. There are 1 figure and 4 references, 4 of which are Soviet.

ASSOCIATION: Vsesoyuznyy aerogeologicheskii trest (All-Union Aerogeological Trust)

PRESENTED: January, 25, 1958 by N. S. Shatskiy, Member, Academy of Sciences, USSR

SUBMITTED: January 23, 1958

Card 3/4

KAZMIN, Yu.B.; FILIPPOVICH, I.Z.; GIMMEL'FARB, G.B.

New data on the Archean stratigraphy of the southeastern part of
the Aldan Shield. Trudy VAGT no.8:85-90 '62. (MIRA 15:11)
(Aldan Plateau--Geology, Stratigraphic)

KAZMIN, Yu.B.

Stanovoy deep fault, its development and effect on magmatic activity
and metallogeny. Trudy VAGT no.8:98-102 '62. (MIRA 15:11)
(Siberia, Eastern--Faults (Geology))

SOLOV'YEVA, M.N.; KAZMIN, Yu.B.; KOZLOV, V.V.

Structure and stratigraphy of Paleozoic sediments in the
trans-Alay Range and the northern Timan Ridge. Izv. AN SSSR.
Ser.geol.27 no.2:64-72 F '62. (MIRA 15:1)

1. Geologicheskii institut AN SSSR i Vsesoyuznyy aeroge-
logicheskii trest, Moskva.

(Alay Range--Geology)

(Timan Range--Geology)

KOPAYEVICH, L.P.; KAZMIN, Yu.B.

Tectonics of the Stanovoy Range. Geol.i geofiz. no.1:37-46 '63.
(MIRA 16:4)

1. Vsesoyuznyy aerogeologicheskiy trest, Moskva.
(Stanovoy Range—Geology, Structural)

KAZ'MIN-BALASHOV, A.I.; POTEKHIN, K.A.

Thirty-fifth anniversary of the State Institute for the Planning
of Special Industrial Structures. Vod. 1 san. tekhn. no.3:39-40
Mr '58.

(Civil engineering)

(MIRA 11:3)

Kaz'min-Balashov, A.I.
REPIN, Nikolay Nikolayevich, kand.tekhn.nauk; SVESHNIKOV, I.P., kand.tekhn.
nauk, retsenzent; BELOUSOV, V.V., kand.tekhn.nauk, retsenzent;
KAZ'MIN-BALASHOV, A.I., inzh. nauchnyy red.; SMIRHOVA, A.P., red.
izd-va; TOKER, A.M., tekhn.red.

[Plumbing] Sanitarno-tekhicheskie ustroistva zdani. Izd. 2-oe,
perer. Moskva, Gos.izd-vo lit-ry po stroit. i arkhitekt., 1957. 358 p.
(Plumbing) (MIRA 11:2)

ANATOL'YEVSKIY, Pavel Aramovich; MALOYAN, Arminak Vladimirovich;
SHMEYEROV, Osher Mendeleyevich; VOLOD'KO, I.F., kand.
tekhn. nauk, nauchn. red.; DAVLETSKIN, Z.V., inzh.; nauchn. red.;
KAZ'MIN-BALASHOV, A.I., inzh., nauchn. red.; KAYESHKOVA, S.M.,
ved. red.

[Operation and repair of water wells] Eksploatatsiya i re-
mont vodianykh skvazhin. Moskva, Izd-vo "Nedra," 1964. 211 p.
(MIRA 17:5)

KOZHINOV, Valerian Fedorovich, prof., doktor tekhn. nauk;
KAZ'MIN-BALASHOV, A.I., inzh., nauchn. red.

[Drinking water and feedwater purification; examples and
calculations] Ochistka pit'evoi i tekhnicheskoi vody; pri-
mery i raschety. 2. izd. Moskva, Stroiizdat, 1964. 271 p.
(MIRA 17:11)

ARONOV, Sergey Nikolayevich, kand. tekhn. nauk; KAZ'MIN-BALASHOV,
A.I., red.

[Transportation and storage of water] Transportirovanie
i khranenie vody. Moskva, Izd-vo lit-ry po stroit.,
1964. 199 p. (MIRA 17:12)

KAZ'MIN-BALASHOV, A.I., inzh.; RUBINSHTEYN, S.L.

Standard designing of structures for purifying petroleum refinery
waste waters. Vod. i san. tekhn.no.5:13-19 '64. (MIRA 17:9)

ANATOL'YEVSKIY, Pavel Aramovich; GAL'PERIN, Leonid Vladimirovich;
KAZ'EMIN-BALASHOV, A.I., inzh., nauchn. red.

[Intakes for underground water; practices abroad in designing, constructing, and maintaining radial intakes] Vodozabor podzemnykh vod; zarubezhnyi opyt proektirovaniia, stroitel'stva i ekspluatatsii luchevykh vodozaborov. Moskva, Stroiizdat, 1965. 117 p. (HIRA 18:10)

SABUROVA, V.A., assistant; TSVETKOVA, S.P., student; ERLYAND, I.A., student (Kazan'); YAKOVLEVA, K.I. (Kazan'); MAHISH, M.G., kand.med.nauk (Kazan'); NIKOLAYEV, G.M., kand.med.nauk (Kazan'); KAZ'MINA, G.K., studentka (Kazan'); TODORTSEVA, M.S. (Saratov)

Short reports. Kaz. med. zhur. no.2:75-78 Mr-Apr '62.

(MIRA 15:6)

(MEDICINE--ABSTRACTS)

KAZ'MINA, L.; BEDERDINOV, Sh.

Mechanism for piling clean plates. Obshchestv.pit. no.11:57-59
N '62. (MIRA 16:1)
(Dishwashing machines) (Automatic control)

KAZ'mina, L.P.

Country : USSR M
 Category : CULTIVATED PLANTS. MEDICINAL. Essential Oils. Toxins.
 Abs. Jour. : REF ZHUR-BIOL., 21, 1958, NO-96186
 Author : Kaz'mina L.P.
 Institut. : Moscow Pharmaceutical Institute
 Title : Pharmacognostic Study of Bur Beggarticks (*Bidens tripartitus* L.). Report I.
 Orig. Pub. : Sb. nauchn. rabot. Mosk. farmatsevt. in-t, 1957, 1, 209-214
 Abstract : Study was made of the dynamics of the total tanning their polyphenol fraction and carotene during vari-developmental stages in *B. tripartitus*. Simultaneously, the vitamin C and essential oil content in the raw material was determined. It was shown that the overall amount of tannins in the beggarticks' tops and throughout the entire above-ground parts of the plant reached its peak during flowering (6.46%) and dropped sharply at the end of the vegetation period. The amount of polyphenols in
 Card: . 1/3

KAZ'MINA, L.P.

Chemical examination of *Bidens tripartita*. Apt. delo 10 no.4:22-28
Jl-Ag '61. (MIRA 14:12)

1. Farmatsevticheskiy fakul'tet I Moskovskogo ordena Lenina meditsin-
skogo instituta.

(BIDENS)

KAZ'MINA, L.P.

Provision of raw Bidens. Apt. delo 10 no.5:24-26 S-0 '61.

(MIRA 14:12)

1. Farmatsevticheskiy fakul'tet I Moskovskogo ordena Lenina meditsin-
skogo instituta imeni I.M.Sechenova.

(BOTANY, MEDICAL)

(BIDENS)

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Color of leaves as an index of the content of tanning
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'64. (MIRA 17:6)

1. Botanicheskiy sad Pervogo moskovskogo meditsinskogo
instituta imeni Sechenova.

KAZMINA N. A. and TONGUR V. S.

5067. KAZMINA N. A. and TONGUR V. S. Effects of pressure on proteins. Renaturation of coagulated albumins under pressure Biochem., Mosk. 1950, 15/3 (212-215) Graphs 3
Tables 2

Egg and serum albumins denatured by heat (5-15 min. at 70° C.) can be renatured by high pressure (2000-3000 atm. for 20 hr.). The procedure can be repeated several times. The renatured proteins show practically no difference from native proteins in physical constants and some other properties.
Procházka - Prague

SO: Excerpta Medica, Section II, Vol. 4, No. 10

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1. Iz gosital'noy terapevticheskoy kliniki (dir. - prof.
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N.I. Pirogova.

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(SEROUS MEMBRANES--INFLAMMATION)

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2. Chlen-korrespondent AMN SSSR (for Lukomskiy).

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Grigor'yevich; TATUR, S.K., prof., doktor ekon. nauk, otv.red.;
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cations system] Bukhgalterskii uchet i analiz balansa v
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R.A., red.; SLUTSKIN, A.A., tekhn. red.

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SRAPIONOV, Onik Sergeyevich; YESIKOV, Semen Rodionovich; RUBINA, P.M.,
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VEBER, V.V., doktor nauk; DVALI, M.F., doktor nauk; DOBRYANSKIY,
A.V., doktor nauk; MAYMIN, Z.L., doktor nauk; MIRCHINK, M.V.,
redaktor; ANDREYEV, P.F., kandidat nauk; AYZENSHTADT, G.Ye.,
kandidat nauk; BOGOMOLOVA, A.I., kandidat nauk; GORSKAYA, A.I.,
kandidat nauk; ZHABREV, D.V., kandidat nauk, redaktor; KAZMINA,
T.A., kandidat nauk; MESSINEVA, M.A., kandidat nauk, PETROVA,
Yu.N., kandidat nauk; RADCHENKO, O.A., kandidat nauk; TATARSKIY,
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Moskva, Gos.nauchno-tekhn.izd-vo nef. i gorno-toplivnoi lit-ry,
1957. 147 p. (MIRA 12:2)

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trest.

(Siberia, Western--Geology, Stratigraphic)

LIUBIMOVA, P.S., starshiy nauchnyy sotrudnik; KAZ'MINA, T.A., paleontolog,
RESHETNIKOVA, M.A., mladshiy nauchnyy sotrudnik

[Ostracoda of Mesozoic and Cenozoic sediments in the West Siberian Plain] Ostrakody mezozoiskikh i kainozoiskikh otlozhenii Zapadno-Sibirskoi nizmennosti. Leningrad, Gos. nauchno-tekhn. izd-vo نفت. i gorno-toplivnoi lit-ry. Leningr. otd-nie, 1960. 426 p. (Leningrad. Vsesoiuznyi neftianoi nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy, no.160) (MIRA 14:7)

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for Oil.)

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Doklady Akademii Nauk, Vol.77, No.2, 1951, 301-3

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KAZMINA, T. I.

"Geochemical Conditions for the Formation of Devonian and Older Deposits in the Volga-Ural Area," page 68 of the book "Formation of Petroleum in the Volga-Ural Area," a compilation of works by the All-Union Sci.Res.Geological Prospecting Inst.(VNIGRI), Issue 82, published by Gostoptekhnizdat, 1955

TABCON and summary D-332548, 20 Oct 55

Card 1/1

KAZMINA, T.I.; ROGACHEVSKAYA, TS.A.; PETRIKEVICH, L.A.

Geochemical study of Carboniferous rocks in the Tatar A.S.S.R.
Avtoref. nauch. trud. VNIIGRI no.17:42-43 '56. (MIRA 11:6)
(Tatar A.S.S.R.--Mineralogical chemistry)

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4,
p 74 (USSR) 15-57-4-4519

AUTHORS: Kazmina, T. I., Maymin, Z. L., Petrova, Yu. N.

TITLE: The Environment of Sedimentation in the Devonian Basin
on the Northwestern Part of the Russian Platform, as
Shown by Geochemical Indicators (K voprosu ob usloviyakh
obrazovaniya osadkov Devonskogo basseyne severo-zapadnoy
chasti Russkoy platformy po nekotorym geokhimicheskim
pokazatelyam)

PERIODICAL: Tr. Vses neft. n.-i. geologorazved. in-ta, 1956, Nr 95,
pp 497-510.

ABSTRACT: The authors have studied the section of Devonian rocks
uncovered by the Pestovo exploratory drill hole. The
Narva formation consists of dolomites with layers of
sandstones and less abundant siltstones and calcareous
clays. The Tartu formation contains interbedded
siltstones, sandstones, and marls. The lower Frasnian
subseries is characterized in the lower part by inter-

Card 1/2

The Environment of Sedimentation (Cont.)

15-57-4-4519

bedded sands, sandstones, and siltstones; in the upper part, by
carbonates (dolomite, marl, and limestone). In the middle Frasnian
deposits, calcareous clays predominate, and layers of marl and
limestone are subordinate. The fact has been established that the
Givetian basin was characterized by high salinity, but that the
salinity gradually decreased in subsequent epochs. Parallel with
the decrease of chlorine, the section is marked by a decrease, from
the base upward, in the content of dolomite in the carbonate part
of the rock. The relationship between the total ferrous iron and
ferric iron bears witness to the oxidizing conditions during the
sediment accumulation. The author notes that the content of organic
carbon and bitumen in the rocks is extremely low.

Card 2/2

V. G. R.

KAZMINA, T.I.; BEL'KOV, G.I.; MAKAROVA, T.P.; ROGACHEVSKAYA, TS.A.

Determination of small concentrations of elements in oil field
waters. VNIGRI no.105:140-173 '57. (MIRA 11:9)
(Water--Analysis)

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3(5)

PHASE I BOOK EXPLOITATION

SOV/1897

Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologorazvedochnyy institut.

O proiskhozhdeniy nefti v kamennougol'nykh i permskikh otlozheniyakh Volgo-Ural'skoy oblasti; sbornik statey (Origin of Petroleum in the Carboniferous and Permian Sediments of the Volga-Ural District; Collection of Articles) Leningrad, Gostoptekhizdat, 1958. 283 p. (Series: Its: Trudy, vyp. 117) Errata slip inserted. 1,500 copies printed.

Ed.: Zinaidy L'vovny Maymin; Exec. Ed.: G.A. Dayev; Tech. Ed.: I.M. Gennad'yeva.

PURPOSE: This book is intended for geologists and geochemists, particularly those interested in questions dealing with the origin, development, and structure of oil deposits.

COVERAGE: This collection of articles deal with the Carboniferous and Permian sediments of the Volga-Ural district and methods of determining possible petroleum source-beds. The lithologic and

Card 1/4

Origin of Petroleum (Cont.)

SOV/1897

geochemical characteristics of the sediments are discussed as are the conditions of oil deposition. The author thanks the following geologists working in the Second Baku area: A.Z. Dubinin, L.P. Zadov, K.B. Ashirov, I.L. Khanin, A.M. Mel'nikov, S.P. Yegorov, and I.A. Shpil'man. Further thanks are extended to Professor M.F. Dvali for his advice and encouragement. References accompany each article.

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AVAILABLE: Library of Congress

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Card 4/4

KAZMINA, T.I.

Classifying halogenic terrigenous deposits by their water-soluble salt
content. Trudy VNIGRI no.123:112-115 '58. (MIRA 11:12)
(Emba Valley--Rocks--Analysis) (Chlorine compounds)
(Boron compounds)

KAZMINA, T.I.; MAKAROVA, T.P.

Effect of the composition of natural waters on the solubility of
naphthenic acids. Trudy VNIGRI no.131:389-392 '59.

(MIRA 12:9)

(Naphthenic acids) (Water, Underground)

KAZMINA, T.I.; GERASYUTO, Z.S.; PETROVA, L.P.

Connate waters in sedimentary rocks. Trudy VNIGRI no.131:393-398
Trudy VNIGRI no.131:393-398 '59. (MIRA 12:9)
(Water, Underground)

KAZMINA, T.I.; PETROVA, L.P.

Material composition of carbonate rocks of southeastern Fergana.
Trudy VNIGRI no.155:234-248 '60. (MIRA 14:1)
(Fergana--Rocks, Carbonate--Analysis)

KAZMINA, T.I.; ZIBREVA, T.P.

Silt waters of some recent sediments. Trudy VNIGRI no.174:155-
165 '61. (MIRA 14:12)

(Indian Ocean—Sediments (Geology)
(Karelian Isthmus—Sediments (Geology)
(Water, Underground—Analysis)

MAYSURIAN, N.A., akademik; EDEL'SHTEYN, M.M., kand.sel'skokhozyaystvennykh nauk; KAZ'MINA, V.K.

Effect of sowing dates on the content and composition of alkaloids in blue lupine. Zemledelie 25 no.1:36-44 Ja '63.
(MIRA 16:4)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni
Lenina (for Maysuryan).
(Lupine) (Alkaloids)

1. KAZHINA V.N., BUAMAN L.K., PROKHOROVA YE. S.
2. USSR (600)
4. Sleep
7. Change in thiamine (vitamin B) requirements in long sleep therapy. Zhur. nerv. i usloj 53 no.1, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, unclass.

VOLOSHIN, A.I.; VIROZUB, I.V.; KAZMINA, V.V.

Heat consumption in coking and ways for its reduction. Koks i khim.
no.10:20-24 '62. (MIRA 16:9)

1. Ukrainskiy uglekhimicheskiy institut.
(Coke ovens)

Kazmina, V.V.

68-1-5/22

AUTHORS: Virozub, I.V., Voloshin, A.I., Kazmina, V.V., and Sherman, M.Ya.

TITLE: The Control of Thermal Conditions of Coke Ovens (Regulirovaniye teplovogo rezhima koksovykh pechey)

PERIODICAL: Koks i Khimiya, 1958, No.1, pp. 17 - 24 (USSR)

ABSTRACT: Some relationships between various parameters affecting thermal conditions of coke ovens are discussed in order to indicate the basis for choosing some parameters as sources of impulses for the automatic control of the coke oven heating system. UKhIN and TsLA (Central Laboratory of Automation) proposed a system of automatic control of thermal conditions of coke ovens which secures a constant supply of heat and a constant excess of air coinciding at a constant temperature of air in the tunnel, with a constant suction at the top of the regenerators in the ascending stream. The proposed system is described in some detail (Figs. 1 and 2). It was installed on the No. 1 battery of the Zaporozhsk Coke Oven Works (Zaporozh'ye koksokhimicheskii zavod) and operated for about two years with satisfactory results. In addition to the described method of direct control of the supply of heat, three other indirect methods were installed and operated in the Soviet Union: 1) a scheme proposed by V.G. Mosyakov. The

Card1/3

The Control of Thermal Conditions of Coke Ovens.

68-1-5/22

control of gas supply is based on the stability of suction at the top of the gas regenerators on the ascending stream and that of the draught on the descending stream. The scheme was installed on the Zaporozhsk Coke Oven Works; its operation is described in Koks i Khimiya, 1958, No.1, pp. 25-29. 2) On the Magnitogorsk Metallurgical Combine (Magnitogorskiy Metallurgicheskii Kombinat) an automatic control of heating coke ovens is in operation. This is based on the maintenance of a constant suction in the waste flues mains on both sides of the battery and a constant content of oxygen in the combustion products by varying the addition of coke oven gas (ovens are heated with a mixture of coke oven and blast furnace gas). The method is described in this issue, pp. 30-35. 3) On the Zhdanovsk Coke Oven Works (Zhdanov koksokhimicheskii zavod, the method of controlling the supply of air for combustion proposed by D.A. Amstislavskiy was based on the maintenance of constant suction at the top of the regenerators on the ascending stream. With this method, variations of the coefficient of excess air during the period between reverses are removed. The deficiency of the method is that air supply changes with changes in air temperature and a low accuracy of the control due to low suction

Card2/3

KAZMINA, V.V.

Effect of the heat of combustion and of the moisture of blast-furnace gas and air on the hydraulic regime of coke ovens. Koks 1 no.3:18-22 '60. (MIRA 13:6)

1. Ukrainskiy uglekhisicheskiy institut.
(Coke ovens)

VOLOSHIN, A.I.; VIROZUB, I.V.; KAZMINA, V.V.; KURBATOVA, M.Yu.

Determination of the heat of carbonization under laboratory
conditions. Koks i khim. no.3:19-23 '62. (MIRA 15:3)

1. Ukrainskiy uglekhimicheskiy institut.
(Coal—Carbonization)

BLANKOV, B.I.; MITEREVA, V.G.; KAZ'MINA, Yu.G.

Antagonistic properties of *Escherichia coli* and dried coli bacterin.
Zhur. mikrobiol., epid. i immun. 41 no.3:85-89 Mr '64. (MIRA 17:11)

1. Moskovskiy institut epidemiologii i mikrobiologii.

BLANKOV, B.I.; LITVAK, R.V.; KAZ'MINA, Yu.G.

Effect of freezing on microbes of the typho-paratyphoid and
dysentery groups. Trudy ~~IKM~~ no.7:96-109'60. (MIRA 16:8)
(LYOPHILIZATION) (SALMONELLA) (SHIGELLA)

VULIKH, A.I. (Novosibirsk); KAZ'MINSKAYA, V.A. (Novosibirsk); ZHERDIYENKO, L.P.
(Novosibirsk)

Chemical experiments with the use of ion exchangers. Khim. v shkole
18 no.5:57-65 S-O '63. (MIRA 17:1)

VULIKH, A.I.; KAZ'MINSKAYA, V.A.; ZHERDIYENKO, L.P.

Ion exchange method for obtaining acids from poorly soluble salts.
Prom.khim.reak. i osobo chist.veshch. no.2:7-13 '63. (MIRA 17:2)

8(3)

SOV/112-59-4-6942

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 4, p 74 (USSR)

AUTHOR: Kazmirenko, F. L.

TITLE: Experience With Using Static Capacitors Connected in Series With the Line for Voltage Regulation in Rural Transmission Lines

PERIODICAL: Sb. tekhn. inform. po sel'sk. elektrifik., 1958, Nr 8-9, pp 88-91

ABSTRACT: The voltage drop in rural lines can be lessened by series-connected static capacitors. Essentials of the capacitor operation and peculiarities of their connection and their protection are briefly described. The principal conditions for an efficient use of series capacitors include a low power factor and a considerable inductance of the transmission line. The series capacitors should be primarily used in the existing networks with predominating and rapidly growing power load. Results of a practical application of series capacitors in the Lenin rayon, Moscow oblast, show that expenses involved in the series-capacitor installation are 14 times lower than those which would be

Card 1/2

SOV/112-59-4-6942

Experience With Using Static Capacitors Connected in Series With the Line for

involved in heavier wires needed for cutting down the voltage drop. Principal advantages and disadvantages of series capacitors as compared to other methods of voltage regulation in distributing networks are listed.

S.S.L.

Card 2/2

KAZMIRENKO, F.I., inzh.; SHESTOPALOV, V.I., inzh.

Simplified 110 kv step-down transformer substation. Mekh. 1
elek.sots.sel'khoz. 17 no.3:42-44 '59. (MIRA 12:8)

1. Vsesoyuznyy gosudarstvennyy institut po proyektirovaniy
elektrifikatsii sel'skogo khozyaystva.
(Electric transformers)

KAZMIRENKO, F.L., inzh., Primal uchastiye SHESTOPALOV, V.I.

How to reduce construction costs of rural low-voltage lines.
Mekh.i elek.sots.sel'khoz. 19 no.5:50-51 '61. (MIRA 14:10)

1. Vsesoyuznyy gosudarstvennyy institut po proyektirovaniyu
elektrifikatsii sel'skogo khozyaystva.
(Electricity in agriculture—Costs)

KAZMIREWICZ, Bronisław (Bytom, ul. Hanki Sawickiej 16)

Problem of spinal fractures without paralysis in miners. Chir. narz.
ruchu 24 no.2:103-111 1959.

1. Z Kliniki Ortopedycznej Sl. A.M. w Bytomiu Kierownik: prof. dr.
G. Wejsflog.

(ACCIDENTS, INDUSTRIAL,

mining accid. causing spinal fract. without paralysis (Pol))

(SPINE, fract.

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KAMINSKI, Edward; KAZMIERKIEWICZ, Jerzy

Permanent exhibition from the domain of forest and wood economy at
the Museum of Technology. Przem drzew 12 no.10:29-30 '61.

(Warsaw—Exhibitions)

KAZMIROWICZ, Bronislaw

A case of traumatic dislocation of the peroneal tendons. Chir. narz.
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1. Z Kliniki Chirurgii Ortopedycznej Sl. AM w Bytomiu Kierownik:
prof. dr G. Wejsflog.
(LEG wds & inj)

WILKOSZEWSKI, Edward; BALUKIEWICZ, Irena; MIKIEWICZ, Barbara;
ROMICKA, Anna; KAZMIROWSKA, Zdzisława

Effect of rheumatic fever and glycocorticoid therapy on the
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the blood serum. Reumatologia (Warsz.) 3 no.3:221-224 '65.

1. Z I Kliniki Pediatricznej AM w Warszawie (Kierownik: prof.
dr. med. R. Baranski), z Kliniki Pediatricznej Studium Dosko-
nalenia Lekarzy AM i Instytutu Reumatologicznego w Warszawie
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Reumatologicznego: dr. med. W. Brühl).

KAZMIROWSKI, Antoni; MILOSZ, Jacek

Resistance welding of rhenium plated molybdenum wires.
Przegl elektroniki 4 no. 5/6: 297-298 My-Je '63.

1. Zaklad Fizyki Technicznej, Instytut Mechaniki Precyzyjnej,
Warszawa (for Kazmirowski).
2. Zaklady Lamp Nadawczych L-14, Warszawa (for Milosz).